

Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, § 10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Galax Energy Concepts, LLC
Facility Name:	Galax Energy Concepts, LLC
Facility Location:	1010 Glendale Road Galax, Virginia 24333
Registration Number:	11012
Permit Number:	SWRO11012

Effective Date: August 27, 2001
Modification Date: April 23, 2003
Expiration Date: August 27, 2006

Robert G. Burnley
Director, Department of Environmental Quality

Signature Date (as modified): April 23, 2003

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AA. EMISSIONS TRADING 26

I. Facility Information

Permittee

Galax Energy Concepts, LLC
1010 Glendale Road
Galax, Virginia 24333

Responsible Official

Mr. Charles W. Cash
Plant Manager

Facility

Galax Energy Concepts, LLC
1010 Glendale Road
Galax, Virginia 24333

Contact Person

Mr. Mark Huncik
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1205 Coldstream Court
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NET Identification Number: 51-640-0059

Facility Description: SIC Code 4961 – Galax Energy Concepts, LLC (GEC) operates three (3) wood-fired gasifier boilers and a municipal waste heat incinerator with heat recovery boiler in Galax, Virginia. A distillate, oil-fired boiler is utilized as a backup. The facility produces steam for resale.

The facility is a Title V major source of carbon monoxide because the potential-to-emit is greater than 100 tons/year. This source is located in an attainment area for all pollutants.

Galax Energy submitted a request on July 10, 2001, to increase the throughput rate for the wood boilers. This NSR permit modification was issued on August 16, 2001. Another request for an NSR permit modification was received on May 3, 2002, to revise the emission rates for formaldehyde based on updated emission factors and to eliminate a permit condition. The NSR permit modification was issued on May 31, 2002. The facility is currently permitted under a modified NSR permit dated May 31, 2002. The Title V permit is being modified to incorporate the above NSR permit modifications.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
1	1	C&H Combustion Co. CH55-R Municipal Waste Incinerator with Waste Heat Recovery Boiler	4167 lbs/hr	Secondary combustion chamber w/fabric filter baghouse-Baumco 2115-612-P	1	PM, VOC, CO	Permit dated May 31, 2002
2	2	Converta Kiln wood-fired gasifier/boiler	29.5 MM Btu/hr	Barron Industries Multicyclones	2	PM	Permit dated May 31, 2002
3	3	Converta Kiln wood-fired gasifier/boiler	29.5 MM Btu/hr	Barron Industries Multicyclones	3	PM	Permit dated May 31, 2002
4	4	Converta Kiln wood-fired gasifier/boiler	29.5 MM Btu/hr	Barron Industries Multicyclones	4	PM	Permit dated May 31, 2002
5	5	Murray-Trane Distillate Oil-fired boiler	31.24 MM Btu/hr	--	--	--	Permit dated May 31, 2002

The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

III. Fuel Burning Equipment Requirements – Emission Unit No. 1

A. Limitations

1. Particulate emissions from the C & H Combustion Company incinerator (I.D. No. 1) shall be controlled by the use of a secondary combustion chamber and a fabric filter baghouse. The fabric filter baghouse shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 7 of NSR Permit dated May 31, 2002)
2. Volatile Organic Compound and carbon monoxide emissions from the C & H Combustion Company incinerator (I.D. No. 1) shall be controlled by the use of a secondary combustion chamber. The secondary combustion chamber shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 8 of NSR Permit dated May 31, 2002)
3. The approved fuels for the C & H Combustion Company incinerator (I.D. No. 1) are distillate oil and municipal waste. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396-78 “Standard Specification for Fuel Oils.” A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 12 of NSR Permit dated May 31, 2002)
4. The maximum sulfur content of the oil to be burned in the incinerator (I.D. No. 1) shall not exceed 0.5 percent by weight per shipment.
(9 VAC 5-80-110 and Condition 16 of NSR Permit dated May 31, 2002)
5. The C & H Combustion Company incinerator (I.D. No. 1) shall consume no more than 50 tons per day and 13,000 tons per year of municipal waste. Annual consumption shall be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110 and Condition 15 of NSR Permit dated May 31, 2002)
6. The C & H Combustion Company incinerator (I.D. No. 1) exhaust stack shall be maintained at a height of 60 feet above ground level. The exhaust stack shall provide unobstructed vertical discharge.
(9 VAC 5-50-30 F, 9 VAC 5-80-110 and Condition 3 of NSR Permit May 31, 2002)

7. Emissions from the operation of the C & H Combustion Company incinerator (I.D. No. 1) shall not exceed the limits specified below:

Particulate Matter	0.08 gr/dscf @ 12% CO ₂	(9 VAC 5-50-260)
PM-10	0.08 gr/dscf @ 12% CO ₂	(9 VAC 5-50-260)
Sulfur Dioxide	6.2 lbs/hr 19.5 tons/yr*	(9 VAC 5-50-260)
Nitrogen Oxides (as NO ₂)	7.5 lbs/hr 23.4 tons/yr*	(9 VAC 5-50-260)
Carbon Monoxide	8.7 lbs/hr 27.3 tons/yr*	(9 VAC 5-50-260)
Volatile Organic Compounds	0.9 lbs/hr 2.8 tons/yr*	(9 VAC 5-50-260)

*Based on 550,251 dscf/hr

Annual emissions shall be calculated as the sum of each consecutive twelve (12) month period.

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 5 and 9 of Section III of this permit.

(9 VAC 5-80-110 and Condition 18 of NSR Permit dated May 31, 2002)

8. Visible Emissions from the incinerator (I.D. No. 1) stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

9. The distillate oil and municipal waste fuels shall meet the specifications below:

DISTILLATE OIL, which meets ASTM D396-78 specifications for, numbers 1 or 2 fuel oil: Maximum sulfur content per shipment: 0.5%

MUNICIPAL WASTE consists of the following:

- a. Household Waste - material discarded by single and multiple residential dwellings, hotels, motels and other similar permanent or temporary housing establishments or facilities.
- b. Commercial/Retail Waste - includes material discarded by stores, offices, restaurants, warehouses, non-manufacturing activities at industrial facilities and other similar establishments or facilities.

- c. Institutional Waste - includes material discarded by schools, hospitals, non-manufacturing activities at prisons and government facilities and other similar establishments or facilities.

Municipal waste does not include sewage, industrial process or manufacturing wastes, infectious wastes, wastes contaminated with polychlorinated biphenyls (PCB's), or soils contaminated with petroleum products. A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-10, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 16 of NSR Permit dated May 31, 2002)

B. Monitoring

1. The baghouse fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The permittee shall monitor daily the pressure drop across the baghouse filter during periods of normal operation to ensure proper operation and maintenance. If a change in pressure drop occurs (outside manufacturer's specification limits), the cause should be determined and corrective action taken to maintain proper operation. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110 and Conditions 7 and 8 of NSR Permit dated May 31, 2002)
2. The permittee shall perform a weekly visible emission observation on the baghouse exhaust, during normal operation, for a brief period of time to identify the presence of visible emissions. If, during any visible emission observation, visible emissions are observed (condensed water vapor/steam is not a visible emission) that appear to be greater than 10% opacity, a visible emission evaluation (VEE) shall be conducted in accordance with 40 CFR 60 Appendix A, Method 9, for a minimum of six minutes. A record of each visible emissions observation shall be maintained. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. If the average opacity is greater than 20%, changes and/or repairs shall be performed to correct the problem. If such corrective action fails to correct the problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted for 18 minutes to determine compliance with the opacity limit. A Method 9 evaluation shall not be required if the visible emissions observed during the weekly visible emission observation are less than 10% opacity; or, the visible emissions condition is corrected in a timely manner such that no visible emissions are present, the emissions unit is operating at normal operating conditions, and, the cause and corrective measures taken are recorded. The permittee shall perform an annual visible emissions evaluation in accordance with 40 CFR 60, Appendix A, Method 9, in order to establish the baseline of expected visible emissions.
(9 VAC 5-80-110 and Condition 7 of NSR Permit dated May 31, 2002)

C. Recordkeeping

1. The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier,
 - b. The date on which the oil was received,
 - c. The volume of distillate oil delivered in the shipment,
 - d. A statement that the oil complies with the American Society for Testing and Materials specifications for fuel oil numbers 1 and 2, and
 - e. The sulfur content of the oil.

(9 VAC 5-80-110 and Condition 17 of NSR Permit dated May 31, 2002)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
 - a. The daily, monthly, and annual consumption of municipal waste. The annual consumption shall be calculated as the sum of each consecutive twelve (12) month period.
 - b. All fuel supplier certifications.
 - c. The type of municipal waste consumed.
 - d. Visible emission checks and any corrective actions.
 - e. Pressure drop across the baghouse filter.
 - f. Maintenance records for the secondary combustion chamber.
 - g. Calculations showing compliance with sulfur dioxide, carbon monoxide, volatile organic carbons and nitrogen oxide emission limits as stated in Section III.A.7. of this permit.
 - h. Particulate matter emissions as a result of the performance testing.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-50 and 9 VAC 5-80-110)

3. The permittee shall maintain records of the required training including a statement of time, place and nature training provided. The permittee shall have available good written operating procedures and a maintenance schedule. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110 and Condition 30 of NSR Permit dated May 31, 2002)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. The permittee shall complete performance testing on the incinerator exhaust once every five years after permit issuance, if operating, to demonstrate compliance with particulate emission limits in Section III.A.7. of this permit. The initial test shall be performed within 60 days after achieving the maximum production rate or no later than 180 days after re-startup. The performance test shall be completed within five years after permit issuance, if the incinerator is operating, and every five years thereafter, prior to the permit renewal date. The Department and EPA have authority to require testing not included in this permit if necessary to determine compliance with an emission limit or standard. Details shall be arranged with the Director, Southwest Regional Office. The permittee shall use the unit-specific emission factors developed during the most recent performance tests for purposes of calculating particulate emissions to demonstrate compliance with the emission limits in Section III.A.7. of this permit. (9 VAC 5-80-110 and Condition 18 of NSR permit dated May 31, 2002)

IV. Fuel Burning Equipment Requirements – Emission Unit Nos. 2, 3, 4

A. Limitations

1. Particulate emissions from the wood-fired boilers (I.D. Nos. 2, 3, and 4) shall be controlled by the use of mechanical collectors (multicyclones), and an annual inspection shall be conducted to ensure mechanical integrity.
(9 VAC 5-80-110 and Condition 5 of NSR Permit dated May 31, 2002)
2. The approved fuel for the Converta Kiln wood-fired boilers (I.D. Nos. 2, 3, and 4) is wood. A change in the fuel may require a permit to modify and operate. Wood excludes any wood which contains chemical treatments or has affixed thereto paint and/or finishing materials or paper or plastic laminates.
(9 VAC 5-80-110 and Conditions 11 and 16 of NSR Permit dated May 31, 2002)
3. Particulate emissions from the unloading, storage, and handling of wood waste shall be controlled by the use of partial enclosures.
(9 VAC 5-80-110 and Condition 6 of NSR Permit dated May 31, 2002)

4. The mechanical collectors (multicyclones) shall be equipped with a device to continuously measure the differential pressure drop across the multicyclones.
(9 VAC 5-80-110 and Condition 9 of NSR Permit dated May 31, 2002)
5. The wood-fired boilers (I.D. Nos. 2, 3, and 4) shall consume no more than 3.34 tons/hour each and a combined total of no more than 67,000 tons per year of wood. Annual consumption shall be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110 and Condition 14 of NSR Permit dated May 31, 2002)
6. Emissions from the operation of the three wood-fired boilers (I.D. Nos. 2, 3, and 4) shall not exceed the limits specified below:

		<u>lbs/hr/unit</u>	<u>tons/yr combined</u>
Particulate Matter	0.16 lbs/MMBtu	4.72	47.7
PM-10	0.16 lbs/MMBtu	4.72	47.7
Sulfur Dioxide		0.30	3.02
Nitrogen Oxides (as NO ₂)		1.54	15.41
Volatile Organic Compounds		0.73	7.37
Carbon Monoxide		16.52	166.96
Formaldehyde		0.13	1.31

Annual emissions shall be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110 and Condition 20 of NSR Permit dated May 31, 2002)

7. Emissions from the unloading, storage, and handling of wood waste shall not exceed the limits specified below:

Particulate Matter	60 lbs/hr	10.05 tons/yr
PM-10	21.6 lbs/hr	3.62 tons/yr

Annual emissions shall be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110 and Condition 21 of NSR Permit dated May 31, 2002)

8. Visible emissions from fugitive emission sources shall not exceed 20 percent opacity based on EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80, 9 VAC 5-80-110 and Condition 22 of NSR Permit dated May 31, 2002)
9. Boiler (I.D. Nos. 2, 3, and 4) emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110 and Condition 30 of NSR Permit dated May 31, 2002)
10. Visible emissions from the Converta Kiln wood-fired gasifier/boiler (I.D. Nos. 2, 3, and 4) exhausts shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 27 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 24 of NSR Permit dated May 31, 2002)
11. Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Section II of this permit, Emission Unit I.D. Nos. 2, 3, and 4, shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc.
(9 VAC 5-50-400, 9 VAC 5-50-410, 9 VAC 5-80-110, 40 CFR 60.40c, 60.41c, 60.48c(g) and Condition 25 of NSR Permit dated May 31, 2002)
12. The wood boiler stack (I.D. Nos. 2, 3, and 4) exhausts shall be maintained at a height of 60 feet above ground level.
(9 VAC 5-50-30 F, 9 VAC 5-80-110 and Condition 3 of NSR Permit dated May 31, 2002)
13. Test ports shall be provided in the wood-fired boiler (I.D. Nos. 2, 3, and 4) exhausts.
(9 VAC 5-50-30 F, 9 VAC 5-80-110 and Condition 4 of NSR Permit dated May 31, 2002)

B. Monitoring

1. The permittee shall monitor continuously the differential pressure drop across the multicyclones. If a change in pressure drop occurs (outside manufacturer's specification limits), the cause shall be determined and corrective action taken to maintain proper operation. The multicyclones shall be equipped with a device for monitoring pressure drop. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110 and Condition 9 of NSR Permit dated May 31, 2002)

2. The permittee shall conduct an annual internal inspection on the multicyclones to insure structural integrity.
(9 VAC 5-80-110 and Condition 5 of NSR Permit dated May 31, 2002)
3. The permittee shall perform a weekly visible emission observation on each wood boiler stack, during normal operation, for a brief period of time to identify the presence of visible emissions. If, during any visible emission observation, visible emissions are observed (condensed water vapor/steam is not a visible emission) that appear to be greater than 10% opacity, a visible emission evaluation (VEE) shall be conducted in accordance with 40 CFR 60 Appendix A, Method 9, for a minimum of six minutes. A record of each visible emissions observation shall be maintained. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. If the average opacity is greater than 20%, changes and/or repairs shall be performed to correct the problem. If such corrective action fails to correct the problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted for 18 minutes to determine compliance with the opacity limit. A Method 9 evaluation shall not be required if the visible emissions observed during the weekly visible emissions observation are less than 10% opacity; or, the visible emissions condition is corrected in a timely manner such that no visible emissions are present, the emissions unit is operating at normal operating conditions, and, the cause and corrective measures taken are recorded. The permittee shall perform an annual visible emissions evaluation in accordance with 40 CFR 60, Appendix A, Method 9, in order to establish the baseline of expected visible emissions.
(9 VAC 5-80-110 K and Condition 24 of NSR Permit dated May 31, 2002)

4. The permittee shall perform a weekly visible emission observation on the unloading, storage, and handling of wood waste, during normal operation, for a brief period of time to identify the presence of visible emissions. If, during any visible emission observation, visible emissions are observed (condensed water vapor/steam is not a visible emission) that appear to be greater than 10% opacity, a visible emission evaluation (VEE) shall be conducted in accordance with 40 CFR 60 Appendix A, Method 9, for a minimum of six minutes. A record of each visible emissions observation shall be maintained. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. If the average opacity is greater than 20%, changes and/or repairs shall be performed to correct the problem. If such corrective action fails to correct the problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted for 18 minutes to determine compliance with the opacity limit. A Method 9 evaluation shall not be required if the visible emissions observed during the weekly visible emissions observation are less than 10% opacity; or, the visible emissions condition is corrected in a timely manner such that no visible emissions are present, the emissions unit is operating at normal operating conditions, and, the cause and corrective measures taken are recorded.
(9 VAC 5-80-110 and Condition 22 of NSR permit issued May 31, 2002)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
 - a. The daily, monthly, and annual throughput of wood, in tons, for the wood-fired boilers. The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.
 - b. Specifications of the fuel consumed.
 - c. Calculations showing compliance with particulate emission limits in Section IV.A.7. of this permit, for the unloading, storage and handling of wood waste.
 - d. Calculations showing compliance with boiler emission limits in Section IV.A.6. of this permit.
 - e. Performance test results.
 - f. Records of all visible emission checks and any corrections.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-50, 9 VAC 5-80-110, 40 CFR 60.48c(g) and Condition 26 of NSR Permit dated May 31, 2002)

2. The permittee shall maintain records of the required training including a statement of time, place and nature training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boilers. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110 and Condition 30 of NSR Permit dated May 31, 2002)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. The permittee shall complete performance testing on each wood boiler (I.D. Nos. 2, 3, and 4) stack once every five years to demonstrate compliance with particulate emission limits in Section IV.A.6. of this permit. The performance tests shall be completed within five years after permit issuance; and every five years thereafter, prior to the permit renewal date. The Department and EPA have authority to require testing not included in this permit if necessary to determine compliance with an emission limit or standard. Details shall be arranged with the Director, Southwest Regional Office. The permittee shall use the unit-specific emission factors developed during the most recent performance tests for purposes of calculating particulate emissions to demonstrate compliance with the emission limits in Section IV.A.6. of this permit.
(9 VAC 5-80-110 and Condition 20 of NSR Permit dated May 31, 2002)

V. Fuel Burning Equipment Requirements – Emission Unit No. 5

A. Limitations

1. The approved fuel for the Murray-Trane boiler (I.D. No. 5) is distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396-78 “Standard Specification for Fuel Oils.” A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 10 of NSR Permit dated May 31, 2002)
2. The maximum sulfur content of the oil to be burned in the Murray-Trane boiler (I.D. No. 5) shall not exceed 0.5 percent by weight per shipment.

(9 VAC 5-80-110, 40 CFR 60.42c(h)(1) and Condition 16 of NSR Permit dated May 31, 2002)

3. The Murray-Trane boiler (I.D. No. 5) shall consume no more than 220 gallons of distillate oil per hour and 122,000 gallons of distillate oil per year; the annual amount to be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110 and Condition 13 of NSR Permit dated May 31, 2002)
4. Emissions from the operation of the Murray-Trane boiler (I.D. No. 5) shall not exceed the limits specified below:

Sulfur Dioxide	15.8 lbs/hr	4.38 tons/yr
Nitrogen Oxides (as NO ₂)	4.4 lbs/hr	1.22 tons/yr
Carbon Monoxide	1.1 lbs/hr	0.31 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 2 and 3 of Section V.A. of this permit.

Annual emissions shall be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 19 of NSR Permit dated May 31, 2002)

5. Visible emissions from the Murray-Trane boiler stack (I.D. No. 5) shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 23 of NSR Permit dated May 31, 2002)
6. The Murray Trane distillate oil-fired boiler (I.D. No. 5) exhaust stack shall be maintained at a height of 40 feet above ground level.
(9 VAC 5-50-30 F, 9 VAC 5-80-110 and Condition 3 of NSR Permit dated May 31, 2002)
7. Test ports shall be provided in the Murray Trane Distillate oil-fired boiler (I.D. No. 5) exhaust.
(9 VAC 5-50-30 F, 9 VAC 5-80-110 and Condition 4 of NSR Permit dated May 31, 2002)

8. Except where this permit is more restrictive than the applicable requirement, the Murray Trane Distillate oil-fired boiler (I.D. No. 5) shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc.
(9 VAC 5-50-400, 9 VAC 5-50-410, 9 VAC 5-80-110, 40 CFR 60.40c, 60.41c, 60.42c(h)(1), 60.48c(d), 60.48c(e)(11), 60.48c(f)(1), 60.48c(g), and Condition 25 of NSR Permit dated May 31, 2002)
9. Emissions from the Murray Trane Distillate oil-fired boiler (I.D. No. 5) shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110 and Condition 30 of NSR Permit dated May 31, 2002)

B. Monitoring

1. The permittee shall perform a weekly visible emission observation on the Murray Trane distillate oil-fired boiler stack, during normal operation, for a brief period of time to identify the presence of visible emissions. If, during any visible emission observation, visible emissions are observed (condensed water vapor/steam is not a visible emission), a visible emission evaluation (VEE) shall be conducted in accordance with 40 CFR 60 Appendix A, Method 9, for a minimum of six minutes. A record of each visible emissions observation shall be maintained. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. If the average opacity is greater than 10%, changes and/or repairs shall be performed to correct the problem. If such corrective action fails to correct the problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted for 18 minutes to determine compliance with the opacity limit. A Method 9 evaluation shall not be required if the visible emissions observed during the weekly visible emissions observation are less than 10% opacity; or, the visible emissions condition is corrected in a timely manner such that no visible emissions are present, the emissions unit is operating at normal operating conditions, and, the cause and corrective measures taken are recorded. The permittee shall perform an annual visible emissions evaluation in accordance with 40 CFR 60, Appendix A, Method 9, in order to establish the baseline of expected visible emissions.
(9 VAC 5-80-110 K and Condition 23 of NSR Permit dated May 31, 2002)

C. Recordkeeping

1. The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier,
 - b. The date on which the oil was received,

- c. The volume of distillate oil delivered in the shipment,
 - d. A statement that the oil complies with the American Society for Testing and Materials specifications for fuel oil numbers 1 and 2, and
 - e. The sulfur content of the oil.
(9 VAC 5-50-410, 9 VAC 5-80-110, 40 CFR 60.48c(d), 40 CFR 60.48c(e)(11), and Conditions 16 and 17 of NSR Permit dated May 31, 2002)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
- a. The daily, monthly, and annual throughput of distillate oil (in 1000 gallons) for the Murray-Trane boiler. The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.
 - b. All fuel supplier certifications.
 - c. Records of all visible emission checks and any corrections.
 - d. Calculations to show compliance with emission limits as stated in Section V.A.4. of this permit.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, 40 CFR 60.48c(g), and Conditions 19 and 26 of NSR Permit dated May 31, 2002)

3. The permittee shall maintain records of the required training including a statement of time, place and nature training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boiler. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110 and Condition 30 of NSR Permit dated May 31, 2002)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)

2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
VOC	EPA Methods 18, 25, 25a
VOC Content	EPA Methods 24, 24a
NO _x	EPA Method 7
SO ₂	EPA Method 6
CO	EPA Method 10
PM/PM-10	EPA Method 5, 17
Visible Emission	EPA Method 9

(9 VAC 5-80-110)

VI. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant Emitted	Rated Capacity
6	Emergency diesel generator	9 VAC 5-80-720 C	PM, SO ₂ , NO _x , CO, VOC	Less than 6667 HP
7	Wood waste shredder	9 VAC 5-80-720 B	PM	20 tons/hour operated 2 hours/day
8	No. 2 Fuel Oil Storage Tank	9 VAC 5-80-720 B	VOC	4200 gallons
9	No. 2 Fuel Oil Storage Tank	9 VAC 5-80-720 B	VOC	4200 gallons

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

VII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this

permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 64	CAM Rule	Not applicable

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

VIII. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit shall become invalid five years from the date of issuance. The permittee shall submit an application for renewal of this permit no earlier than 18 months and no later than six months prior to the date of expiration of this permit. Upon receipt of a complete and timely application for renewal, this source may continue to operate subject to final action by the DEQ on the renewal application.
(9 VAC 5-80-110 D and 9 VAC 5-80-80 F)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place (as defined in the permit), and time of sampling or measurements.
 - b. The date(s) analyses were performed.

- c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.
(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”
(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the

permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.
(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Southwest Regional Office, within four daytime business hours, after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition VIII.C.3 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

If, for any reason, the affected facilities or related air pollution control equipment fails or malfunctions and may cause excess emissions for more than one hour, the owner shall notify the Director, Southwest Region, within four (4) daytime business hours of the occurrence. In addition, the owner shall provide a written statement, within 14 days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shutdown. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the board.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
(9 VAC 5-80-110 G.4)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:

- a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is potential of, a resulting emissions increase;
- b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
- c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emissions cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
- d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
- e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;
- f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);
- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.
(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

- 1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
- 2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the

requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air

pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.
(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the board of the malfunction within two working days following the time when the emissions limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, telegraph, or any other method that allows the permittee to comply with the deadline. The notice fulfills the requirement of 9 VAC 5-80-110 F.2. b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirements under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.
(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An

applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
(9 VAC 5-80-110 I)